

Name: _____

Masonry**Directions:**

Evaluate the student by checking the appropriate number to indicate the degree of competency.

Rating Scale (0-6):

- 0 No Exposure** – no experience/knowledge in this area; program/course did not provide instruction in this area
1 Unsuccessful Attempt – unable to meet knowledge or performance criteria and/or required significant assistance
2 Partial Demonstration – met some of the knowledge or performance criteria with or without minor assistance
3 Knowledge Demonstrated – met knowledge criteria without assistance at least once
4 Performance Demonstrated – met performance criteria without assistance at least once
5 Repetitive Demonstration – met performance and/or knowledge criteria without assistance on multiple occasions
6 Mastered – successfully applied knowledge or skills in this area to solve related problems independently

NOTE:

* = Core competencies (essential for the first day on the job).

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | A. Demonstrate employability skills | Notes: |
|---|---|---|---|---|---|---|---|---------------|
| | | | | | | | 1. Identify employment opportunities and current trends in the masonry trade | |
| | | | | | | | 2. Identify personal characteristics of a quality employee | |
| | | | | | | | *3. Describe employment requirements (i.e., drug testing) | |
| | | | | | | | *4. Identify personal responsibilities of employment (i.e., punctuality, good attitude, professional appearance, accountability, respect for diversity) | |
| | | | | | | | *5. Demonstrate effective communication skills | |
| | | | | | | | Other: | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | B. Demonstrate basic trade and applied academic skills | Notes: |
|---|---|---|---|---|---|---|--|---------------|
| | | | | | | | *1. Demonstrate basic reading and comprehension skills | |
| | | | | | | | *2. Solve job-specific mathematical calculations | |
| | | | | | | | *3. Solve basic ratio and proportion problems | |
| | | | | | | | *4. Read a rule | |
| | | | | | | | 5. Read a spacing rule | |
| | | | | | | | 6. Read a modular rule | |
| | | | | | | | 7. Identify types of scaffolding | |
| | | | | | | | 8. Identify repair and maintenance procedures in the masonry trade | |
| | | | | | | | 9. Use computer technology in the construction trade | |
| | | | | | | | Other: | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | C. Appreciate and apply all personal and workplace safety procedures | Notes: |
|---|---|---|---|---|---|---|---|---------------|
| | | | | | | | *1. Complete a safety performance assessment for tools and equipment | |

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|---|--|
| | | | | | | | | *2. Demonstrate safe and proper use of tools and equipment | |
| | | | | | | | | *3. Follow personal safety practices (i.e. no loose clothing, hair tied back, no jewelry, harness) | |
| | | | | | | | | *4. Wear personal protective equipment (i.e., eye protection, ear protection, skin protection, head protection) | |
| | | | | | | | | *5. Maintain a clean, orderly, and safe work area | |
| | | | | | | | | *6. Identify types of fire extinguishers and their uses | |
| | | | | | | | | *7. Demonstrate proper techniques for lifting and carrying | |
| | | | | | | | | *8. Demonstrate proper installation and use of scaffolding | |
| | | | | | | | | *9. List and describe government agencies that affect the masonry trade (i.e., OSHA, DNR, building codes) | |
| | | | | | | | | *10. Read and interpret Material Safety Data Sheets (MSDS) | |
| | | | | | | | | Other: | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | D. Use basic hand and power tools consistent with industry and safety standards | Notes: |
|---|---|---|---|---|---|---|--|---------------|
| | | | | | | | *1. Identify common hand tools | |
| | | | | | | | *2. Identify common power tools | |
| | | | | | | | *3. Select and use appropriate hand tools according to the job | |
| | | | | | | | *4. Select and use appropriate power tools according to the job | |
| | | | | | | | Other: | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | E. Identify masonry materials and supplies | Notes: |
|---|---|---|---|---|---|---|--|---------------|
| | | | | | | | *1. Identify structural clay products | |
| | | | | | | | *2. Identify concrete products | |
| | | | | | | | *3. Identify natural masonry products | |
| | | | | | | | *4. Identify mortar products | |
| | | | | | | | *5. Identify additives, protectives, cleaning agents, sealants, and water repellants | |
| | | | | | | | 6. Identify artificial materials | |
| | | | | | | | 7. Identify reinforcing materials | |
| | | | | | | | 8. Identify insulated concrete forms (ICF) | |
| | | | | | | | 9. Demonstrate an awareness of new products/emerging technology | |
| | | | | | | | Other: | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | F. Interpret designs, drawings, and specifications | Notes: |
|---|---|---|---|---|---|---|---|---------------|
| | | | | | | | 1. Read and interpret the architect's scale | |
| | | | | | | | 2. Read and interpret the engineer's scale | |
| | | | | | | | 3. Read and interpret an architectural blueprint | |
| | | | | | | | 4. Read and interpret a set of specifications | |
| | | | | | | | 5. Read and interpret an electrical plan | |
| | | | | | | | 6. Read and interpret a structural plan | |
| | | | | | | | 7. Read and interpret a mechanical plan | |
| | | | | | | | 8. Read and interpret a site plan | |
| | | | | | | | 9. Read and interpret a finish schedule | |
| | | | | | | | 10. Estimate the amount of materials for a job | |
| | | | | | | | Other: | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | G. Construct masonry structures consistent with industry and safety standards | Notes: |
|---|---|---|---|---|---|---|--|---------------|
| | | | | | | | *1. Spread mortar for brick | |
| | | | | | | | *2. Spread mortar for block | |
| | | | | | | | *3. Lay brick to a line with established leads | |
| | | | | | | | 4. Construct a 90-degree brick lead | |
| | | | | | | | *5. Lay 8" block to a line with established leads | |
| | | | | | | | 6. Construct a 90-degree block lead | |
| | | | | | | | 7. Lay out and construct a section of a wall with a joint reinforcement and openings | |
| | | | | | | | 8. Construct an 8" brick wall | |
| | | | | | | | 9. Construct two 8" brick intersecting walls | |
| | | | | | | | 10. Identify arches, chases, pilasters, columns, and piers | |
| | | | | | | | 11. Install a rowlock brick window sill | |
| | | | | | | | 12. Demonstrate an understanding of layout procedures | |
| | | | | | | | *13. Demonstrate an understanding of pre-cast applications | |
| | | | | | | | 14. Construct a properly reinforced ICF (insulated concrete form) wall | |
| | | | | | | | Other: | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | H. Clean, point, and caulk masonry structures consistent with industry and safety standards | Notes: |
|---|---|---|---|---|---|---|---|---------------|
| | | | | | | | *1. Describe the safe use of hazardous materials (i.e., acids, strippers) | |
| | | | | | | | *2. Clean a new brick wall using the appropriate materials | |
| | | | | | | | *3. Clean an existing brick wall using the appropriate materials | |
| | | | | | | | *4. Repair or rebuild a section of a masonry wall | |
| | | | | | | | 5. Remove paint and stains from the face of a masonry wall | |
| | | | | | | | *6. Caulk doors, windows, masonry, pre-cast, and concrete control joints | |
| | | | | | | | *7. Demonstrate safe and proper procedures for below grade waterproofing and damp proofing applications | |
| | | | | | | | *8. Demonstrate proper water repellent procedures for concrete and masonry | |
| | | | | | | | 9. Describe advancements in above grade coating products (i.e., Dryvit™, Thoroughlastic™, and STOWE™) | |
| | | | | | | | Other: | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | I. Demonstrate leadership skills in the classroom, industry, and society | Notes: |
|---|---|---|---|---|---|---|---|---------------|
| | | | | | | | *1. Determine an understanding of VICA, its structure, and activities | |
| | | | | | | | *2. Demonstrate an understanding of one's personal values | |
| | | | | | | | *3. Perform tasks related to effective personal management skills | |
| | | | | | | | *4. Demonstrate good interpersonal skills | |
| | | | | | | | *5. Demonstrate etiquette and courtesy | |
| | | | | | | | *6. Demonstrate effectiveness in oral and written communication | |
| | | | | | | | *7. Develop and maintain a code of professional ethics | |
| | | | | | | | *8. Maintain a good professional appearance | |
| | | | | | | | *9. Perform tasks related to securing and terminating employment | |
| | | | | | | | *10. Perform basic parliamentary procedures in group meetings | |
| | | | | | | | Other: | |